

FIG. 1 (Prior Art)

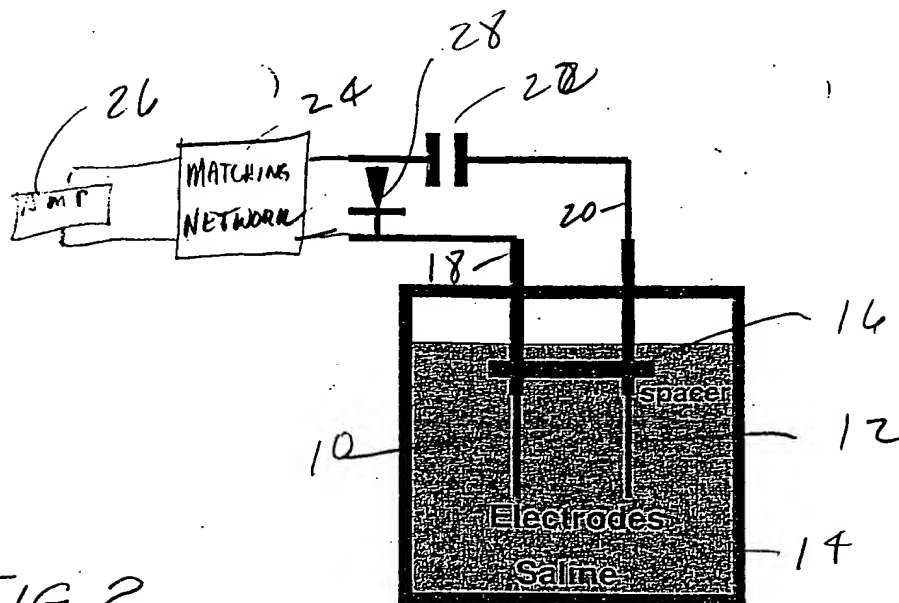


FIG. 2

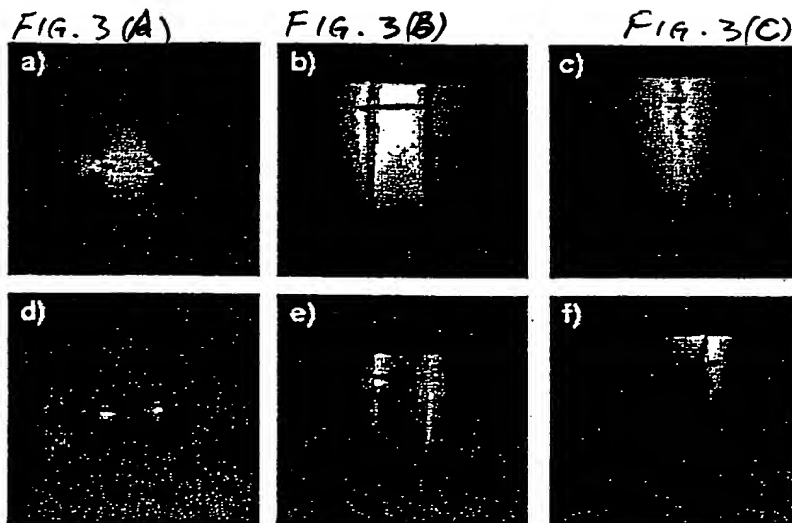


Figure 3: Sensitivity of the electrode probe coil. In this example, a-c) shows the sensitivity pattern in the axial, coronal, and sagittal planes with the electrodes in a plane parallel to  $B_0$ . Images d-f) show the sensitivity pattern in the same planes with the electrodes in a plane perpendicular to  $B_0$ .

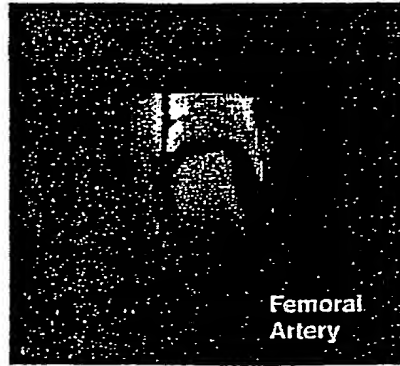


Figure 4: Axial image of an excised human femoral artery using the electrode probe coil on a 1.5T MRI scanner. These probes provide exquisite detail while being minimally invasive.

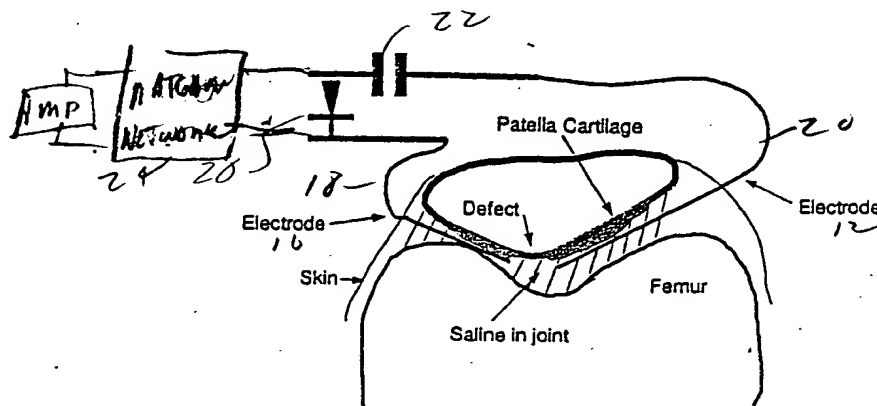
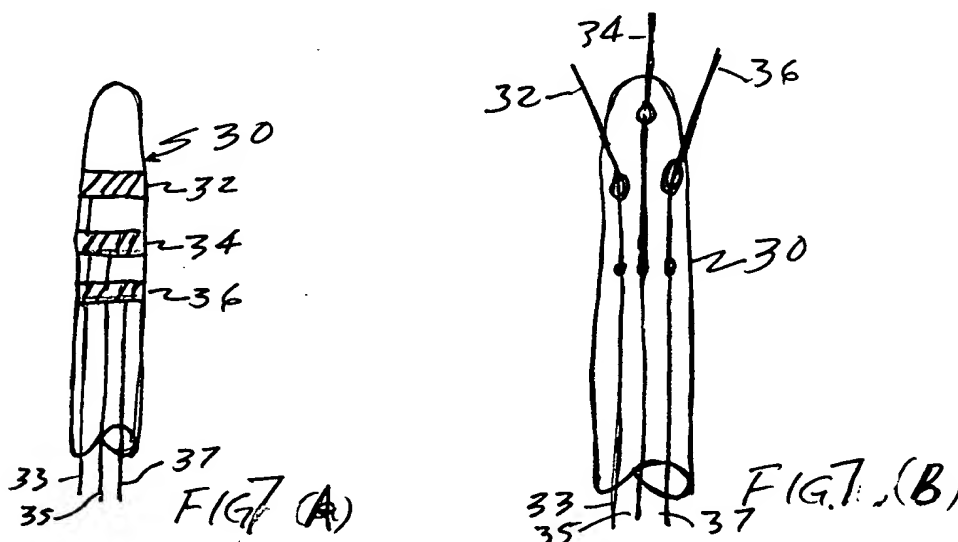


Figure 5: Schematic drawing of placement of the electrode probe coil intra-articularly in a patient with a defect in the patellar cartilage. The joint is filled with saline and the probes are placed near the defect to maximize SNR in the area of interest.



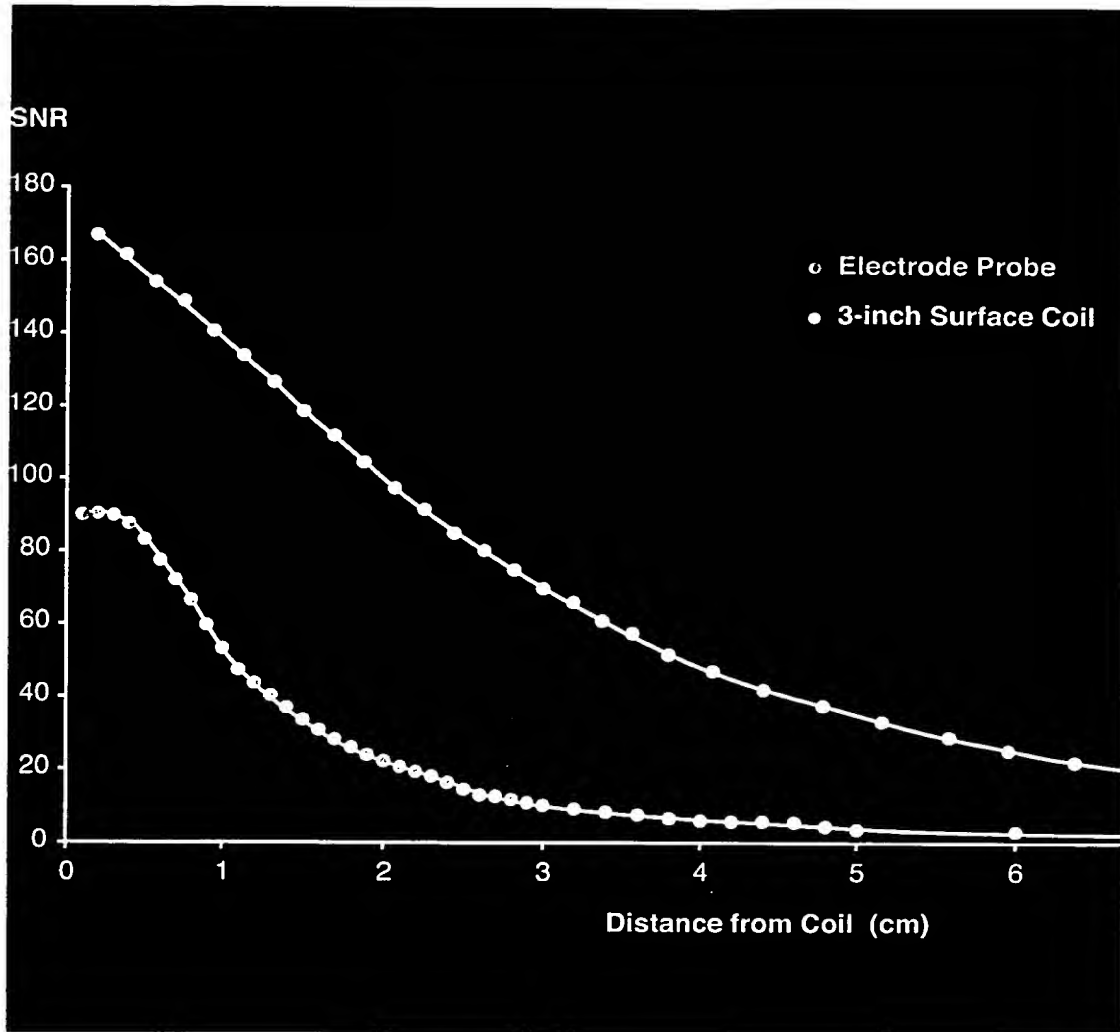


FIG. 6